

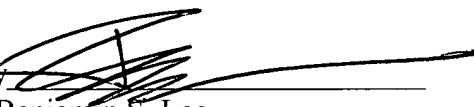
REMARKS

Applicants submit this preliminary amendment to correct some references to FIG. 2 in the specification. The specification, in one paragraph, incorrectly uses references numbers "100" "101" etc. rather than "200" "201" etc. to refer to FIG. 2. No new matter has been added by this preliminary amendment.

The Examiner is invited to contact the undersigned at 908-532-1904 if the Examiner wishes to discuss any matter concerning the application.

Respectfully submitted,
Eleftherios Koutsofios
Stephen Charles North
Russell N. Truscott
Emden Gansner

Date: November 20, 2002

By 
Benjamin S. Lee
Reg. No. 42,787

AT&T CORP.
P.O. Box 4110
Middletown, NJ 07748
Tel: 908-532-1904
Fax: 732-368-6932

VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Specification:

The paragraph in the specification at Page 5, Line 94 to Page 6, Line 106, has been replaced with the following paragraph:

Fig. 2 sets forth an implementation architecture for SWIFT-3D. It consists of three modules: data collector [101]201, aggregator [102]202, and visualization interface [103]203. The modules communicate using self-describing data-independent binary formats [100]200 consisting of a header that defines record size, type and data context, followed by the actual data. This is advantageous since SWIFT-3D is designed to work in real-time. The data processing modules can work incrementally and the visualization tools can safely access the data files while they are being updated. This, of course, in a preferred embodiment necessitates high-performance storage depending on the size of the data files. For example, for the voice network data described below which can reach sizes of 15 Gbytes of data uncompressed per day, the inventors have found it advantageous to use an 800-megabit High Performance Parallel Interface (HPPI) network providing 10 terabytes of on-line storage and another 20 terabytes of tape under hierarchical storage management.